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(54) MEASURING PIPE IN ELECTROMAGNETIC FLOWMETER

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(57) Abstract:

PURPOSE: To obtain the measuring pipe of the electromagnetic flowmeter, which is characterized by high insulating property and easy insulation coating work, by treating the wall surface of the flow rate measuring pipe comprising aluminum or aluminum alloy with Alumite, and thereafter coating it with an insulating material layer.

CONSTITUTION: The measuring pipe in the electromagnetic flowmeter having electrodes, an exciting coil, and the like is constituted by a cylinder body 6 comprising aluminum or aluminum alloy. The wall surface of the inner flow path of the cylinder body 6 is treated by Alumite and an alumite layer 7 is formed. Minute holes 8 exist in the Alumite layer 7. Pin holes are formed at the bottom part of said minute holes 8. Therefore the surface of said Alumite layer 7 is coated by the insulating material such as Teflon. By treating the inner wall of the electromagnetic flowmeter in this way, the insulating layer is formed without providing a reinforcing structure in the lining coating.

